



stefan problem mobile alloy element austenite

Search

Advanced Search

Web Show options...

Results 1 - 10 of about 6,150 for stefan problem mobile alloy element austenite. (0.47 seconds)

Cementite dissolution at 860 °C in an Fe-Cr-C steel

by L Zhao - 2006 - Cited by 2 - Related articles - All 6 versions

solve a vector-valued **Stefan problem** with a finite size of **austenite** cell. ... carbon in the early stage, and of the **alloying element** (chromium, ...

www.springerlink.com/index/DM27453K447W4856.pdf

Dissolution of excess phases in structural steels in heat treatment

by VV Popov - 1995 - Related articles

classified among diffusion problems in regions with **mobile boundaries** (**Stefan's problem**).In the general case it should be solved with allowance for the multicomponent nature of ... tration of carbide- and nitride-forming **elements in austenite**, .... of transition metals in iron

alloys," in: Problems of Metals Sci ...

www.springerlink.com/index/G32004X630K20274.pdf

A three-dimensional model for particle dissolution in binary ...

by FJ Vermolen - 2007 - Cited by 6 - Related articles

In these papers particle dissolution was viewed as a **Stefan problem** with a sharp interface.... by an  $\alpha$ -diffusive phase in which the **alloying element** diffuses. .... deals with thedissolution of a cementite plate in an **austenite** matrix. ...

linkinghub.elsevier.com/retrieve/pii/S0927025606002783 - Similar

A mathematical model for the dissolution of particles in multi ...

by FJ Vermolen - 2000 - Cited by 24 - Related articles - All 11 versions

This problem is known as a vector valued **Stefan problem**. .... The resulting discretizedequation for one **alloying element** is given by (for ease of .... and application to the

Ferrite/Austenite transformation in the Fe-Cr-Ni-system. ...

linkinghub.elsevier.com/retrieve/pii/S0377042799003556

[Show more results from linkinghub.elsevier.com](#)Modeling austenite-ferrite transformation in low carbon steel ...

by YJ Lan - 2004 - Cited by 2 - Related articles - All 6 versions

For the Fe-Xi-C **alloy**, Fe-Xi can be regarded as the super-**element** S. Therefore, the calculated ... Fe-C **alloys** during **austenite** decomposition under non- ... set method for solving **Stefan problems**. J. Comput. Phys. 135, 8. (1997). ...

www.mrs.org/s\_mrs-bin.asp?CID=223&amp;DID=50620...PDF - Similar

(WO/2005/076092) COMPUTER-ASSISTED MODELLING METHOD FOR THE ...

by K FRANZ - 2005

... (K) of the **mobile alloy element** is modified in the **austenitic** zone of the ... Ferner wirddurch Lösen eines **Stefan-Problems** ermittelt, ob und wie sich ...

www.wipo.org/pctdb/en/wo.jsp?wo=2005076092 - Cached

Computer-Assisted Modelling Method for the Behavior of a Steel ...

by W Borchers - 2007 - All 2 versions

If the **Stefan problem** or the **Stefan problems** are only resolved for a part of the .... K' of the **mobile alloy element** changes in the **austenitic** zone of the ...

www.freepatentsonline.com/y2007/0276636.html

PDF HIGHER DIMENSIONAL NUMERICAL SIMULATIONS OF PRECIPITATE ...File Format: PDF/Adobe Acrobat - [View as HTML](#)

by E Javierre - Related articles

was viewed as a **Stefan problem** with a sharp interface separating the ... phase  $\Omega_{dp}$  in which the **alloy elements** diffuse. The boundary between the particle and the .... that the **austenite-ferrite** transformation occurs much faster than ...

ta.twi.tudelft.nl/nw/users/volk/papers/Jav06aVVSZ.pdf

A new semi-analytical method for phase transformations in binary ...

by SG Ahmed - 2007 - Related articles - All 6 versions

Douglas, J., A uniqueness theorem for the solution of a **Stefan problem**. ... The dissolution of a stoichiometric second phase in ternary **alloys**: a numerical analysis. .... to the ferrite-**austenite** transformation in the Fe-Cr-Ni-system. ...

portal.acm.org/citation.cfm?id=1266319

Diffusive redistribution of carbon in carbon steels under the ...

by AN Safonov - 1998 - Cited by 2 - Related articles - All 3 versions

of carbon in **austenite**. Surface heat treatment of steels and **alloys** creates a zone ... carbon represents the one-dimensional **Stefan problem** with two moving boundaries: ... reduces to the case with one **mobile austenite** ^ excess phase ...

www.iop.org/EJ/article/1063-7824/28/8/085008.pdf - Similar

[1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [Next](#)

---

**stefan problem mobile alloy element austenite**

[Search within results](#) · [Language Tools](#) · [Search Help](#) · [Dissatisfied? Help us improve](#) · [Try Google Experimental](#)

---

[Google Home](#) · [Advertising Programs](#) · [Business Solutions](#) · [Privacy](#) · [About Google](#)